

**BOISE STATE UNIVERSITY
STORMWATER MANAGEMENT PLAN
ANNUAL REPORT
October 1, 2008 – September 30, 2009**

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Boise State University
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Introduction

This report identifies the activities undertaken by Boise State University during the ninth permit year, in compliance with the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued on November 29, 2000 by the Environmental Protection Agency (Permit No. IDS-02756-1).

STRUCTURAL CONTROLS (II.A.1)

Summary of Inspection and Maintenance Activities

Inspections: 102 drop grates, manhole and catch basin structures inspected
 Eight outfalls
 25 oil/water separators
 30 man-hours and maintenance at a cost of \$250

Cleaned: 5 drop grates, manhole and catch basin structures and
 One oil/water separator was cleaned with a pump truck at a cost of
 \$4,092.

Floatables were cleaned by the Boise State Landscape Services and Environmental Health & Safety personnel, from drop grates, manhole, and catch basin structures at the time of cleaning.

FLOATABLES (II.A.2)

The BSU Landscape Services staff picks up litter and empties trash receptacles throughout the campus for two to three hours daily. Landscape Services spent 3111 hours annually on litter control, correlating to a cost of \$50,509.

Floatables were cleaned by the Boise State Landscape Services personnel, from drop grates, manhole and catch basin structures at the time of cleaning. A total of 111 hours were spent on inspection and cleaning by Landscape Services and Environmental Health & Safety personnel. Floatables are picked up immediately after sporting events at the Stadium and Taco Bell Arena.

Facilities Operation and Maintenance (FO&M) swept the campus streets and parking lots quarterly and on an as-needed basis at a cost of \$9,420. A contractor for Parking Services swept Parking Structure 1 and 2 quarterly at an annual cost of \$2174.

The Boise State University Stormwater Coordinator served on the planning committee for RiverSweep 2009, an annual community event promoting the Boise River as a protected natural resource. The event had over 500 volunteers picking up trash and recyclables along 40 miles of the upper and lower Boise River segments in September 2009.

ROADWAYS (II.A.4)

Facilities Operation and Maintenance (FO&M) swept the campus streets and parking lots quarterly and as needed for a cost of \$9,420. A contractor for Parking Services swept Parking Structure 1 and 2 quarterly at an annual cost of \$2174.

Approximately 30 cubic yards of sand were dispensed at roadway stopping zones, slopes, and at crosswalks when needed.

Approximately 11,200 lbs. of pelletized calcium chloride were dispensed on the campus walkways, with most run off to adjacent lawn areas. The pelletized de-icer is stored in roofed buildings.

Approximately 9,000 gallons of liquid ice melt (calcium chloride) were dispensed on campus roadways, parking lots, and crosswalks.

FLOOD MANAGEMENT (II.A.5)

Boise State University is currently in discussion with Ada County Highway District (ACHD) regarding a joint project to redirect stormwater from south of the campus that is collected by the ACHD drainage system and currently drains through Boise State's D-drainage. The proposed project would redirect a portion of the stormwater from the approximately 183 acres south of the campus to the University's G-drainage. G-drainage would be rebuilt to accommodate the additional flows and a treatment facility is proposed prior to the outfall. No monies were spent on storm drainage improvement in this reporting period.

ILLICIT DISCHARGES AND IMPROPER DISPOSAL (II.A.7)

Boise State University by definition of "major outfall" in the glossary of the NPDES permit does not contain eligible outfalls. Eight minor Boise State University outfalls which drain to the Boise River were inspected in August 2009 during dry-weather season. No illicit connections were observed during the August 2009 inspections.

Updates of the drainage structure inventory, including outfalls, are performed on an annual basis. The associated maps of drainage structures are being updated using Geographic Information System software to produce maps depicting location and identification code. Updates to the maps are expected to be completed by March 1, 2010.

Illicit Discharge of Perchloroethylene

As a result of an illicit release of perchloroethylene (a dry cleaning solvent) to a subsurface storm water drainage system, for an indeterminate number of years, at a laundry south of the Boise State campus, a perchloroethylene (PCE) plume is in the groundwater below a portion of the Boise State campus. In April of 2003, DBSI Broadway Plaza Limited Partnership entered into a Voluntary Consent Order with Idaho Department of Environmental Quality (IDEQ). The Consent Order addresses site investigation and cleanup of the PCE.

The Boise State University campus is bordered on the north side by the Boise River. The proximity of the Boise River and the relatively flat surface topography of the campus result in depth to groundwater from the ground surface of approximately 6-10 feet depending on the time of year, local irrigation, and river flow. The high groundwater table results in groundwater infiltration into lower levels of several Boise State University buildings. To protect the health and safety of occupants of the buildings and the infrastructure situated in the lower levels of these buildings, dewatering wells have been located external to buildings to lower the groundwater level and sump pumps have been located inside of buildings to remove groundwater that has entered buildings. All of the dewatering activities were active prior to Boise State's knowledge of the PCE plume.

The six dewatering wells that lower the groundwater table around Morrison and Driscoll Hall discharge to the Boise River through Outfall F. Outfall D runs year round due to groundwater infiltration and irrigation return flows. The responsible party has been monitoring the Outfalls and perchloroethylene has been identified in the sample analysis of the outfalls. The concentration of PCE in Outfall D has ranged from non-detect to 5.7 µg/L and Outfall F has ranged from 1.2 to 7.5 µg/L. The six dewatering pumps draining at Outfall F were re-directed to the sanitary sewer in March 2008. Outfall D continues to flow.

In an October 2003 letter the Idaho Department of Environmental Quality (IDEQ) determined that groundwater containing up to 10 µg/L brought to the surface will be considered to "no longer contain in" (NLCI) a RCRA listed waste. IDEQ indicated that the NLCI criteria will apply to groundwater which: "Is pumped into the Boise River as a result of de-watering activities on campus", as well as other activities.

Boise State has not reported the discharge of PCE into the Boise River as an illicit discharge in previous annual reports because the PCE concentrations were below the "No Longer Contained In" (NLCI) criteria that IDEQ set and therefore not a problem. A letter was sent to the Boise EPA office in March of 2005 describing the PCE discharge from the outfalls. A Remedial Action Plan (RAP) was submitted to IDEQ for review by the responsible party as part of the Consent Order process and the soil removal activities laid out in the RAP were found to have been successfully completed. While IDEQ has required the responsible party to submit an approvable Closure/Post-Closure Plan, the responsible party has since declared bankruptcy.

SPILL PREVENTION AND RESPONSE (II.A.8)

Boise State participates in the Co-permittee Spill Response Task Force. Boise State is listed on the Complaint Response Matrix and Contact List. The Stormwater Coordinator attended all meetings held in conjunction with revising and updating the Complaint Response Matrix and automated call messaging service.

Boise State has developed and implemented a Spill Prevention Control and Countermeasure (SPCC) plan for University facilities and maintains the plan by completing annual refresher training for the coordinators.

Boise State staff participates in and is a member of the Local Emergency Planning Committee (LEPC).

CONSTRUCTION SITE RUNOFF (II.A.10)

The construction site discharge control program language requires contractors and others involved in land development and construction activities on Boise State University facilities, to prepare and submit to Boise State University or its designated agent for review and approval, an Erosion and Sediment Control (ESC) plan for a construction site on Boise State University facilities. Contractors and/or operators of construction sites on Boise State University facilities shall use and maintain the approved Best Management Practices and erosion and sediment controls specified in the ESC plan to reduce pollutants to the maximum extent possible.

Boise State University or its designated agent has the authority to inspect the construction site(s) and to issue notices of violation and stop work orders for violations or lack of compliance with the ESC plan.

In its August 4, 2008 warning letter, the Region 10 NPDES Compliance Unit (“the Unit”) expressed concern about the authority of Boise State University’s Environmental Health & Safety officer to remedy construction violations and issue stop work orders, if necessary. The Unit noted a positive relationship between the construction managers and environmental safety officers. But its’ statements reflect a basic misunderstanding of the organization of the University and do not reflect the copermittee as Boise State University and not any particular department at Boise State University. As identified in its organizational charts, the Associate Vice President for Campus Planning and Facilities has authority for both Architectural and Engineering Services and Environmental Health and Safety. Thus, the University, as a whole and as the identified copermittee has the requisite ability to correct violations in an effective and timely manner.

Three Stormwater Pollution Prevention Plans were reviewed and approved. Four inspections were performed in the reporting period.

Summary of Outreach Events: The Stormwater Coordinator participated in two pre-construction meetings to disseminate information regarding stormwater requirements with regards to local and federal regulations. Construction site stormwater management information was emailed sixteen times to project managers.

PUBLIC EDUCATION (II.A.11)

Boise State refers to the Public Education section of Boise City’s annual report, as they are the lead agency for Public Education as designated in the Intergovernmental Agreement. Boise State University participates in the Public Education Program by participating in the Intergovernmental Agreement and cost sharing with the City of Boise. The Boise State Stormwater Coordinator is a member of the copermittee Public Education Committee and participated in a number of educational activities with the other Co-permittees.

Storm drain marking – October 2008, The Environmental Health club marked storm drains with broken or missing markers on approximately 30 campus drainage structures that drain to the Boise River.

Reach Health Fair - 11-12-08, The Environmental Health & Safety Office had a booth at the Reach Health Fair. The primary focus was to increase awareness of stormwater activities and pollutant prevention. We initiated a pharmaceutical take back initiative in conjunction with the police department and the state board of pharmacy to encourage proper disposal of over-the-counter and prescription medicines. The Health Fair helps to increase awareness of stormwater management and other environmental management activities on campus as over 1,200 students, faculty, staff and public attended the event.

Departmental meeting – 03-28-09, A brief presentation to the departments of risk management, parking, public safety, and environmental health regarding the existing storm water system, the storm drain markers, and who to contact if illicit dumping or spills are witnessed.

Complaint Summary: Five complaints were received in this reporting period. See Table 1.

Table 1 –Complaint summary

DATE	NOTIFICATION	SUBSTANCE	AMOUNT	CONTAINMENT MEASURE	CONTAINED
1/09/09	Internal – BSU staff	Diesel	2 gallons	Absorbent material applied then swept.	Yes. None entered the storm drain.
2/02/09	Internal – BSU staff	Antifreeze	3 quarts	Absorbent material applied then swept.	Yes. None entered the storm drain.
3/02/09	Internal – BSU staff	Antifreeze	3 quarts	Absorbent material applied then swept.	Yes. None entered the storm drain.
3/10/09	Internal – BSU staff	Oil	1 gallon	Absorbent material applied then swept.	Yes. None entered the storm drain.
9/22/09	Internal – BSU staff	Oil	5 quarts	Absorbent material applied then swept.	Yes. None entered the storm drain.

LEGAL AUTHORITY (II.C)

Each co-permittee shall operate pursuant to legal authority established by statute, ordinance, or series of contracts. The prior Annual Reports used a state trespassing statute and water quality rules, cooperation with the campus police, and the Idaho Department of Environmental Quality for justification of sound legal authority to implement the Storm Water Management Plan.

Boise State University does not maintain the equivalent of a city code to regulate storm water discharges. However, the University does operate and maintain a storm water system which collects runoff from areas involved in a wide variety of uses including student housing, academic uses, research activities, science laboratories and recreational facilities.

The University has the authority to implement its storm water management programs and to control, regulate and enforce discharges to the storm water system through the statutory framework of the Idaho Code. In particular, I.C. §33-104 grants to the Idaho State Board of Education, Boise State University's governing authority, the power to "make rules for its own government and the government of its executive departments of office." Further, the Board, by its policies (Section I, subsection A(2) and Subsection E) grants to the President of Boise State University the power and responsibility to organize, manage, direct and supervise the institution pursuant to the framework of the Board's Governing Policies and Procedures. Under this grant of authority to the President, the University has enacted a broad range of policies, including regulations for the operation, management and maintenance of the storm water system, as well as the power to control illicit discharges, spills and dumping. Although the current policy expresses this broad authority, we are in the process of amending the policy to expressly reference the University's obligations under the NPDES permit. The final policy revision will be completed by October 1, 2010.

In addition, through a contract between Boise State University and the City of Boise Police Department, administrators at the University are able to call City Police for assistance in enforcement.

ANNUAL REPORT (IV.E)

- a. *Status of implementing the component of the Storm Water Management Program that are established as Permit Conditions.* The status of implementing Boise State University’s components of the Storm Water management Program that are established as Permit conditions are summarized above.
- b. *Proposed changes to the Storm Water Management Program.* No changes are proposed to Boise State University’s Storm Water Management Program.
- c. *Revisions, if necessary, to the assessments of controls and the fiscal analysis reported in the Part 2 of the Permit Application.* There are no revisions.
- d. *A summary of the data that co-permittees accumulated through the reporting years.* The data accumulated by Boise State University is summarized above.
- e. *Annual expenditures and budget for the year following each annual report.*

Boise State University Stormwater Related Expenditures 2008-09

Activity	Cost
Operation and Maintenance of storm water structures	\$4,092
Street and Parking Lot Sweeping	\$11,594
Litter Control	\$50,509
Training	\$190
Monitoring Cost Share	\$6,923
Public Education and Outreach Cost Share	\$3,362
Total	\$76,670

The annual expenditures and budget for the year following this annual report will fall near \$77,000 for the activities of: monitoring and public education cost share, litter control, sweeping, and maintenance of storm water structures. This figure does not include the personnel costs for the year around activities of the Stormwater Coordinator.

- f. *A summary describing the number and nature of enforcement actions, inspections, and public education programs.*
- g. *Identification of water quality improvements or degradation.*
- h. *A summary of all storm event monitoring*
- i. *All other information required by this Permit to be submitted with the Annual Report.*

The reporting information listed in items f through i are either provided herein or by the co-permittees elsewhere in the Annual Report.

Report Certification

*Boise State University NPDES Municipal Separate Storm Sewer System
Annual Report FOR Permit Year 2008-2009*

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Stacy Pearson
Vice President for Finance and Administration
Boise State University

Date